

## INTERNATIONAL SEARCH REPORT

10/520362

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PC 03/07411

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C213/08 C07D307/46 C07D333/22 C07C225/12 C07C221/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 457 559 A (LILLY CO ELI) 21 November 1991 (1991-11-21) cited in the application the whole document ---	1-9,13
A	EP 0 650 965 A (LILLY CO ELI) 3 May 1995 (1995-05-03) cited in the application the whole document ---	1-9,13
A	EP 0 046 288 A (RUHRCHEMIE AG) 24 February 1982 (1982-02-24) page 9, line 18 - line 27; example 1 ---	1
A	F. F. BLICKE: "The Mannich reaction" ORGANIC REACTIONS, vol. I, 1942, pages 303-341, XP002218609 the whole document ---	1
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Δ\* document member of the same patent family

Date of the actual completion of the international search

27 October 2003

Date of mailing of the international search report

03/11/2003

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/EP 03/07411

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KIYOSHI MATSUMOTO: "Synthese unter hohem Druck: Mannich-Reaktion....." ANGEWANDTE CHEMIE., vol. 94, no. 12, 1982, page 937 XP002218608 VCH VERLAGSGESELLSCHAFT, WEINHEIM., DE ISSN: 0044-8249 page 937	1
X	CHEMICAL ABSTRACTS, vol. 56, no. 1, 1962 Columbus, Ohio, US; abstract no. 363g, G. I. DENIS ET AL.: "Alkylation of aromatic amines by the Mannich bases." page 363; column 1; XP002218610 abstract & IZVEST. VYSSHIKH UCHEB. ZAVEDENII, KHIM. I KHIM. TEKHNOL., vol. 4, 1961, pages 426-428,	9
X	CHEMICAL ABSTRACTS, vol. 52, no. 13, 1958 Columbus, Ohio, US; abstract no. 11067b, LEWIS W. NOBLES ET AL.: "Ketonic Mannich bases....." page 11067; column 1; XP002218611 abstract & J. AM. PHARM. ASSOC., SCI. ED., vol. 67, 1958, pages 77-81,	9
X	CHEMICAL ABSTRACTS, vol. 63, no. 8, 1965 Columbus, Ohio, US; abstract no. 9900g, R. LANDI-VITTORY ET AL.: "Derivatives of benzofuran and coumaran." page 9899; column 2; XP002218612 abstract & FARMACO (PAVIA), vol. 18, no. 2, 1965, pages 109-118,	9

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X	CHEMICAL ABSTRACTS, vol. 67, no. 11, 1967 Columbus, Ohio, US; abstract no. 53946c, B. I. ARDASHEV ET AL.: "Synthesis of Beta-arylamino ketones of the furan series." page 5066; column 1; XP002218613 abstract & KHIM. GETEROTSIKL. SOEDIN., vol. 1, 1967, pages 7-9, ---	9
X	CHEMICAL ABSTRACTS, vol. 101, no. 13, 1984 Columbus, Ohio, US; abstract no. 110812c, SAAKYAN, A. M. ET AL.: "studies on the chlorination of organic compounds...." page 647; column 2; XP002218614 abstract & ARM. KHIM. ZH., vol. 37, no. 4, 1984, pages 261-265, ---	9
X	CHEMICAL ABSTRACTS, vol. 95, no. 1, 1981 Columbus, Ohio, US; abstract no. 6707u, AGARWAL, S. K. ET AL.: "Synthesis, characterization and screening of antibacterial activity of some new Mannich bases." page 635; column 1; XP002218615 abstract & J. INDIAN CHEM. SOC., vol. 57, no. 12, 1980, pages 1240-1241, ---	9
X	CHEMICAL ABSTRACTS, vol. 70, no. 9, 1969 Columbus, Ohio, US; abstract no. 37630b, TILAK, B. D. ET AL.: "Synthesis of nitrogen heterocyclics." page 331; column 1; XP002218616 abstract & INDIAN J. CHEM., vol. 6, no. 8, 1968, pages 422-427, ---	9

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International Application No.

PCT/JP 03/07411

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CHEMICAL ABSTRACTS, vol. 102, no. 1, 1985 Columbus, Ohio, US; abstract no. 6087e, XU, XIUJUAN ET AL.: "Mannich reaction with...." page 552; column 1; XP002218617 abstract & HUAXUE XUEBAO, vol. 42, no. 7, 1984, pages 688-692, ---	9
X	CHEMICAL ABSTRACTS, vol. 59, no. 2, 1963 Columbus, Ohio, US; abstract no. 1625b, N. SALDABOLS ET AL.: "New Mannich bases..." page 1625; column 1; XP002218618 abstract & LATVIJAS PSR ZINATNU AKAD. VESTIS, KIM. SER., vol. 2, 1962, pages 309-310, ---	9
A	W. LEWIS ET AL.: "Ketonic Mannich bases....." JOURNAL OF THE AMERICAN PHARMACEUTICAL ASSOCIATION, vol. 47, no. 2, 1958, pages 77-81, XP001115095 page 80, column 2 -page 81, column 2 -----	9

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Information on patent family members

International Application No.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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